CIHM Microfiche Series (Monographs) ICMH
Collection de
microfiches
(monographies)



Canadian Institute for l'atorical Microreproductions / Institut canadian de microreproductions historiques

(C) 1994

### Technical and Bibliographic Notes / Notes techniques et bibliographiques

copy evailable may be bibliog of the images i	Institute has ettempted to obtain the best original evailable for filming. Features of this copy which be bibliographically unique, which may alter any le images in the reproduction, or which may ficantly change the usual method of filming, are ked below.  Coloured covers/ Couverture de couleur				ité possible de plaire qui sont igraphique, qu duite, ou qui (	imé le meilleur e se procurer. Le t peut-être uniqu i peuvent modif peuvent exiger u rmale de filmege	s détails de d les du point d ler une imag lne modifica	cet de vue e tion		
					Coloured page Pages de coule					
Covers d	amaged/ ure endommagée				Pages damages Pages endomn					
	pstored and/or la ure restaurée et/o					and/or lamination				
	de missing/ de couverture ma	anque		V	• • • • • • • • • • • • • • • • • • • •	ered, stained or 1 les, tachetées ou				
Coloured Cartes gi	1 maps/ iographiques en	couleur			Pages detache Pages détaché					
	ink (i.e. other to couleur (i.e. eut			Showthrough/ Transparence						
	d plates and/or il et/ou illustratio				Quality of prid Qualité inégale	nt varies/ • de l'impression				
	rith other materi ac d'eutres docur				Continuous pa Pagination cor					
along int	nding may cause terior margin/ e serrée peut cau				Includes index Comprend un					
	n le long de la m					r taken from:/ n-tête provient:				
within the	eves added during the text. Whenever tead from filming	or possible, these ng/	e have		Title page of it Page de titre d					
lors d'un	t que certaines p le restauretion aç sque cela était p ilmées.	peraissent dans	la texte,		Caption of issu Titre de dépar	ue/ t de la livraison				
					Masthead/ Générique (pé	riodiques) de la	livraison			
	nel comments:/ ntaires supplémen	ntaires:								
	med at the reduc		ed below/ diqué ci-dessous.							
10X	14X		18X	22×	2	6X	30×			
		1								
12	X	16X	20 X		24X	28×		32×		

The copy filmed here has been reproduced thanks to the generosity of:

**National Library of Canada** 

The images appearing here are the best quality possible considering the condition and legibility of the original copy and in keeping with the filming contract specifications.

Original copies in printed paper covers are filmed beginning with the front cover and ending on the last page with a printed or illustrated impression, or the back cover when appropriate. All other original copies are filmed beginning on the first page with a printed or illustrated impression, and ending on the last page with a printed or illustrated impression.

The last recorded freme on each microfiche shell contain the symbol → (meaning "CONTINUED"), or the symbol ▼ (meaning "END"), whichever applies.

Maps, plates, charts, etc., may be filmed at different reduction ratios. Those too large to be entirely included in one exposure are filmed beginning in the upper left hand corner, left to right and top to bottom, as many fremes as required. The following diagrams illustrate the method:

L'exemplaire filmé fut reproduit grâce à la générosité de:

Bibliothèque nationale du Canada

Les images suivantes ont été reproduites avec le plus grend soin, compte tenu de la condition et de la netteté de l'exemplaire filmé, et en conformité avec les conditions du contrat de filmage.

Les exemplaires originaux dont la couverture en papier est imprimée sont filmés en commençant par le premier plat et en terminant soit par la dernière page qui comporte une empreinte d'impression ou d'illustration, soit par le second plat, seion le cas. Tous les autres exemplaires originaux sont filmés en commençant par la première page qui comporte une empreinte d'impression ou d'illustration et en terminant par la dernière page qui comporte une telle empreinte.

Un des symboles suivants appareîtrs sur la dernière image de chaque microfiche, seion le cas: le symbole → signifie "A SUIVRE", le symbole ▼ signifie "FIN".

Les cartes, planches, tableaux, etc., peuvent être filmés à des taux de réduction différents.
Lorsque le document est trop grand pour être reproduit en un seul cliché, il est filmé à partir de l'angle supérieur gauche, de gauche à droite, et de haut en bes, en prenant le nombre d'images nécessaire. Les diagrammes suivants illustrent la méthode.

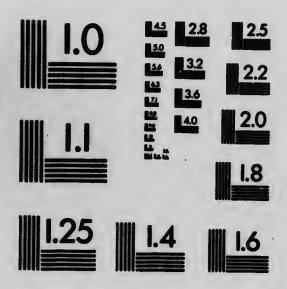
1	2	3

1	
2	
3	

1	2	3
4	5	6

### MICROCOPY RESOLUTION TEST CHART

(ANSI and ISO TEST CHART No. 2)





### APPLIED IMAGE Inc

1653 East Main Street Rochester, New York 14609 USA (716) 482 - 0300 - Phone (716) 288 - 5969 - Fax TH7480.



### Pocket List

OF THE WORLD FAMOUS

### Safford Radiators

Triumph
Round and Sectional Steam and
Hot Water Boilers

Importers of and Dealers in Iron Pipe, Fittings, Brass and Iron Body Valves, and Steam Fitters' Sundries.

Dominion Radiator Company

TORONTO, CANADA

ALOUNT TO THE PARTY OF THE PART

Entered according to Act of the Parliament of Catada, in the office of the Minister of Agriculture at Ottown, in the year 1805 by the Hominian Radiator Company, Limited, of Teresto.

CO 136 CRAIG ST WEST

### FAVORITE and DAISY.

FOUR COLUMN.

\$ .c		*	HEATING SURFACE -SQUARE FRET.				
Number of Sections.	*Lengt # in. per Section	Height.	Sq. Ft. per Section.	Bin.	% in. in Height. Sq. Ft. per Section.	Sq. Ft.	16 in. in Haigh 3% Sq. Ft per Section
. 2	8	19 1/3	16	133/3	103/3	8	William Company
3	12	29	124	20	16	12	
4	16	383/3	32	263/3	213	16	71/2
- 5	20	483/3	40	33 3/3	263/3	20	4 4 4 4 4
. 6	24	58	48	40	32	24	123/2
7	28	673/3	56	403/3	371/3	28	15 171/2
8	32	77 3/3	64	53 1/3	423	32	20
9	36	,87	72	60	48	36	991/
10	40	963/3	80	663/3	53 1/3	+40	14073 196
11	4 4 8	106 3	88	73 1/3	583/3	44	9
12 13		116	96	80	64	48	30
	52	1253/3	104	862/3	69 1/3	52	
14 15	56 60	135 1/3	112	933/3	743/3		35
16		145	120	100	80	60	37
17		1542/3	128	1062/3	851/3	64	40
18		1643	136	1131/3	903/3	68	4136
19			144	20	96	72	45
20	80 1	93 1/3	152	263/3	01 1/3	76	47 55
21-	84 2	103 73	160   1 168   1		063/3	80	00 -
22			2 2 2 2 2 2		12	84	8
23	4.10		The same of the sa	463/3 1	17 1/3	88	វិស៊ី 💮
24	96 2			533/3 1	22/3	92	73
25		4.5	200	60	20 3	96 100	

### TRIDENT.

THREE COLUMN.

6			He	ATING SURF	nensions.		
Number of Sections.	*Length 3½ in. per Section.	Height.	Sq. Ft.	32 in. in Height. 4½ Sq. Ft.	26 in.	22 in. in Height. 3 Sq. Ft. per Section.	18 in. in Height. 21 Sq. Ft. per Section
2	5	12	10	9	7 1/2	6	4.1/
3	1.73/2	18	15	131/2	111/4	9	4 1/2
4	10	24	20	18	15	12	634
5	123/2	3Q,	25	221/2	1834	15	
· 6.	15	36	30	27	22 1/2	18	131/2
7	1736	42	35	311/2	26 1/4	21	1534
8	20	48	40	36	30	24	18
9	223/2	51	45	403/2	3334	27	201/4
10	25	60	50	45	373/2	30	22 1/2
	273/	.66	55	493/2	411/4	33	243/4
3 12	30	72	60	54	45	36	27
13	321/2	78	65	581/2	4834	39	29 1/4
14	35	84	70	63	521/2	42	31 1/2
15	373/2	90	75	67 1/2	561/4	45	333/4
16	40	96	80	72	60	48	36
18	421/2	102	85	76 1/2	633/4	51	381/4
19		108	90	81	67 1/2	54	40 1/2
20	50	114	95	85 1/2	711/4	57	423/4
21	521/2	120 126	100	90	75	60	45
22	55	132	105	94 1/2	783/4	63	471/4
23	571/2	138	110° 115	99	82 1/2	66	49 1/2
24	60	144		103 1/2	861/4	69	513/4
	error of all	150		108	90	72	54
In estim	A CONTRACTOR OF THE PARTY OF TH	2001	120	1121/2	933/4	75	56 1/4

In estimating length of Radiator allow 1/2 inch for each plug or bushing.

### FAVORITE and DAISY.

Two Column.

	-8.		HEATING SURFACE—SQUARE FEET.						
Numb of Section	E.6.2	38 in. in Height. in Height. Sq. Ft. per Section.		26 in. in Height. 2% Sq. Ft. per Section.	30 in. in Height. 2 Sq. Ft. per Section.	16 in. in Height. 1½ Sq. fi per Sec.			
2	7	8	62/3	5 3/3	4	2/			
3	191/2	12	10	8	6	41			
4	14	16	133/3	10%	. 8	4 1/2			
5	173/2	20	163/3	131/3	10	71/			
6	21	24	~ 20	16	12	7 3/2			
7	24 1/2	28	23 3/3	183/3	14	101/2			
8	28	32	263/3.	213/3	16	12			
10	311/2	36	30	24	18	133/			
11	35	40	33 3/3	263/3	20	15			
12	381/2	44 48	363/3	29 1/3	22	1636			
13	42		40	32	24	18			
14	45 1/2	52	43 3/3	343/3	26	1934			
15		56	463/3	37 1/3	28	21			
16	52½ 56	6Q 64	50	40	30	221/2			
17	593/2	68	53 3/3	423/3	32	24			
18	63	72	563/3	451/3	34	25 1/2			
19	663/2	76	60	48	36	27			
20	70	80	63 1/3	503/3	38	283/2			
21	73 1/2	84	662/3	53 3/3	40	30			
22	77	88	7914	56	42	31 1/2			
23	803/2		73 ½ 76 ½ 76 ½ 76 ½ 76 ½ 76 ½ 76 ½ 76 ½	583/3	44	33			
24	84		80	61 1/3	46	34 1/2			
25	87 3/2		83 1/3	64 662/3	48 50	36 37 ½			

<sup>\*</sup> In estimating length of Radiator allow % inch for each plug or bushing.

### PERFECT.

				EATING SI			Paraer	
Number of	tLongth 3% in. per Section.	43 in. in Height. Sq. Ft. per Section.	38 in. in Heigh Sq. Ft per	32 in. in Height. 37 Sq. Ft.	30 in.	26 in. in Height 25% Sq. Pt.	23 in. Height. Sq. Ft.	20 in. in Height Sq. Pt. per Section.
. 2		10	8	63/3	6	53/3	43/3	
3	1 /	15	12	10	9	8	73	6
4		20	16	133/3	12	103/3	9 3/3	8
5		25	20	163/3	15	13 1/3	113/3	10
6		30	24	20	18	16	14	12
7.		35	28	23 1/3	21	183/3	163/3	14
8		40	32	263/3	24	21 1/3	183/3	, 16
9	231/2	45	36	30	27	24	21	18
10	25	50	40	33 1/3	30	263/3	231/3	20
11	271/2	55	44	363/3	33	291/3	25 3/3	22
12	30	60	48	40	36	32	28	24
13 14	321/2	65	52	43 1/3	39	343/3	303/3	26
	35	70	56	463/3	42	37 1/3	323/3	28
15	373/2	75	60	50	45	40	35	30
17	40	80	64	53 1/3	48	423/3	37 3/3	32
18	42 1/2	85	68	562/3	51	45 1/3	393/3	34
19		90	72	60	54	48	42	36
20	473/2	95	76	63 1/3	57	503/3	44 3/3	38
21	50	100	80	663/3	60		463/3	40
22	523/2	105	84	70	63	56	49	42
23		110	88	73 3/3	66	582/3	51 3/3	44
24	57 1/2	115	92	763/3	69	61 3/3	533/3	46
25		120	96	80	72	64	56	48
20	6236	125	100	831/3	75	663/3	583/3	50

<sup>\* 30</sup> and 23-inch Radiators are made for steam only.
† In estimating length of Radiator allow ½ inch for each plug or bushing.

### FLORENCE.

Two Column.

C aracitics and Dimensione,

'			Ha	TING SURI	PACE—SQUA	RE FEET.	
Number of Sections.	Length 21/2 in. per Section.	45 in. in Height. Sq. Ft. per Section.	38 in. in Height. Sq. Ft. per Section.		26 in.	30 in. in Height. Sq. Ft. per Section.	16 in. in Heigh 15, Sq. Ft per Section
2	. 5	10	8	63/3	5.1/3	4	3
3	73/2	15	12	1C	8	6	
4	10	20	16	13 1/3	103/3	8	4 3/2
- 5	123/2	25	20	163/3	133/3	10	
6	15	30	24	20	16	12	7 1/2
7	173/2	35	28	23 3/3	18%	14	101/2
8	20	40	32	263/3	21 3/3	16	12
9	221/2	45	. 36	30	24	18	133/2
10	25	50	40	33 1/3	263/3	20	15
11	27 3/2	55	44	363/3	293/3	22 .	161/4
12	30	60	48	40	32	24	18
13	323/2	65	52	43 3	343/3	26	1934
14	35	70	56	463/3	37 3/3	28	21
15	37 1/2	75	60	50	40	30	221/2
16	40	80	64	53 3/3	423/3	32	24
17	421/2	85	68	563/3	45 3/3	34	25 3/2
18	45	90	72	60	48	36	27
19	47 3/2	95	76	633/3	503/3	38	281/2
20	50	100	80	663/3	53 3/3	40	30
21	521/2	105	84	70	56	42	311/2
22	55	110	88	733/3	583/3	44	33
23		115	92	763/3	61 3/3	46	341/2
24	60	120	96.	80	64	48	36
25	62 1/2	125	100	83 3/3	662/3		37 1/2

<sup>†</sup> In estimating length of Radiator allow % inch for each plug or bushing.

### TORO.

Two Column.

1 1 1 E		nd Dimension		1 1 1 1 1 1 1
	HEA.	TING SURFACE S	QUARE FEET.	
Number of 2% in. per Sections	on in Height,  4 Sq. Ft. per Section.	in Height. 3½ Sq. Ft. per Section.	26 in. in Height. 2% Sq. Ft. per Section.	20. in. in Height, 2 Sq. ft. per Sec.
2 5 3 7 1/2	12	62/3	53/3	4
3 7 1/2 4 10 5 12 1/2	16	131/3	103/3	8
6 15	90 24	163/3 20	13 1/3	10 12
7 173/2 8 20	28	23 1/3 26 2/3	183/3	.14
9 22½ 10 25	36	30	21 3	16. 18:
11 27 1/2	10 × 40 × 44	33 ½ 36 ¾	262/3 291/3	20 22
12 30 13 32 1/2	48 52	363/3 40 431/3	32	24
14 35 15 37 1/2	56	463/3 50	342/3 373/3	26 28
10 40	64	53 1/3	40 423/3	30 32
17 42½ 18 45	68 72	562/3	451/3	34
19 47½ 20 50	76 80	631/3	503/3	36 38
21 52 1/2	84	663/3 70	53 1/3 56	40
22 55 57 ½	88 92	73 ½ 76 ½ 76 ½ 76 ½ 76 ½ 76 ½ 76 ½ 76 ½	58 <sup>2</sup> / <sub>3</sub> 61 <sup>1</sup> / <sub>3</sub>	44
24 60 25 62 1/2	96 100	80 83 ½	64	48
* In catimating length	of Distance of the control of	Andrew Indiana	663/3	50-

In estimating length of Radiator allow % inch for each plug or bushing.

### ROYAL and PROVINCIAL. Two Column.

Capacities and Dimensions.

Numbe	- EZ:			URFACE-SQU		
Section	2% in.	45 in. in Height. 8 Sq. Ft. per Section.	Sq. Ft. per Section.	32 in. in Height. 3½ Sq. Ft. per Section.	26 in. in Height. 23/2 Sq. Ft. per Section.	20 in. Height 2 Sq. ft per Sec
2	5	10	8	63/3	5 1/3	1,
3	7 1/2	15	12	n 10	8	6
4	10	20	16	13 1/3	103/3	8
5	121/2	25	20	163/3	131/3	10
6	15	30	. 24	20	16	12
7	171/2	35	28	233/3	183/3	14
8	20	40	32	263	21 1/3	16
9 3	221/2	45	36	30	24	18
10	25	50	40	331/3	263/3	20
11	27 1/2	55	44	363/3	29 1/3	22
12	30	60	48	40	32	<b>24</b> <sup>∞</sup>
13	321/2	65	52	43 1/3	343/3	262
14 15	35	70	56	463/3	37 1/3	28
16	37 1/2	75	60	50	40	30
17	40	80	64	53 3/3	423/3	32
18	421/2	85	68	563/3	451/3	34
19		90	72	60	48	36
20	4732 50	95	76	63 3/3	503/3	38
21	52 1/2	100	80	663/3	53 1/3	40
F-70 1-51	55	105	84	70	56	42
	571/2	115	88	731/3	583/3	44
	60	120	92	763/3	61 1/3	46
. 2 E	621/2	125	96	80	64	48
	473	140	100	83 1/3	663/3	50

Nors-Provincial made in 45 in., 38 in. and 32 in. heights only.

<sup>\*</sup> In estimating length of Radiator allow % inch for each plug or bushing.

### IDEAL FLUE VENTILATING.

			Capa	cities and	Dimensi	one.	
1			. 4	HEATING S	SURFACE-S	WARE FEET.	2 6 80
S	lumber of ections	*Length Sin. per Section.	in Height. 8½ Sq. Ft. per Section.	38 in. in Height. 7 Sq. Ft. per Section.	32 in. in Height	26 in.	20 in. in
	2	6	163/2	14	111/2	0	0-4
	3	9	243/4	21	171/4	9	6 1/2
	4	12	33	28	23	131/2	93/4
	5	15	411/4	35	2834	18	13
Mil t	6	18	49 1/2	42	34 1/2	22 1/2 27	1614
	7.	21	573/	49	401/4		191/2
Est .	8.	24	66	56	46	31 1/2	223/4
Table 1	9	27	74 1/4	63	5134	403/2	26
	0.	30	82 1/2	- 70	57 1/2	45	291/4
	1.	33	903/	77	63 1/4	491/2	321/2
	2	36	99.	84	69	54	353/ <sub>4</sub> 39
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3	39	107 1/4	91	743/4	58 1/2	491/
	4 and	42	1151/2	98	80 1/2	63	421/4
5 -	5	45	1233/4	105	86 1/4	67 1/2	45 1/2
	6	48	132	112	92	72	483/4 52
	7	51	1403/4	119	973/4	76 1/2	55 1/4
1	4.6	54	148 1/2	126	103 1/2	81	581/2
19		57	15634	133	1091/4	85 1/2	613/4
2(	700	60	165	140	115	90	65
2]	_	63	1731/4	147	1203/	94 1/2	68 3/4
22		06	181 1/6	154	126 1/2	99	71 1/2
23 24		69 .	18934	161	1321/4	103 1/2	743/4
25			198	168	138	108	78
20		75	2061/4	175	1433/4		811/4

<sup>\*</sup> In estimating length of Radiator allow 1/2 inch for each plug or bushing

### ZENDA. SINGLE COLUMN.

1	4 8		HEATING S	URFACE-SQ	VARE FEET.	
Numi of Section	67.8	38 in. in Height, 3 Sq. Ft. per Section.	32 in. in Height. 24 Sq. Ft. per Section.	26 in. in Height. 2 Sq. Ft. per Section.	23 in. in Height. 13/5 Sq. Ft. per Section.	20. in. is Height. 1% Sq. ff per Sec.
2	5	6	5	4		0
3 4	73/2	9	7 1/2	, 6	3 1/3	3
	110	12	10	8	63/3	43/2
5	121/2	15	121/2	10	8 1/3	6
6	15	18	15	12	10	73/2
7	173/2	21	171/2	14	112/3	
8	20	24	20	16	133/3	101/2
10	221/2	27	221/2	18	15	121/
10	25	30	25	20	163/3	131/2
11 12	27 1/2	33	271/2	22	181/3	163/2
13.	30	36	30	24	20	18
14	321/2	39	321/2	26	213/3	1934
15	35	42	35	28	23 1/3	21
16	371/2	. 45	371/2	30	25	2234
17	40	48	40	32	262/3	24
18	421/2	51	421/2	34	28 1/3	251/2
19	471/	54 57	45,	36	30	27
20	47½ 50	60	473/2	38	312/3	281/2
21	521/2	63	50	40	33 1/3	30
22	55		521/2	42	35	311/2
23	57 1/2		55	44	362/3	33
24 -	60		573/2	46	38 1/3	34 1/2
25	621/2		60	48	40	36
	to of whom I	th of Radiator	621/2	50	412/3	3.7 3/2

<sup>\*</sup> In estimating length of Radiator allow % inch for each plug or bushing.

### ACME WINDOW FLUE.

	1	Capan	ities and	Dimension	10.	
	4 .		HEATING S	URFACE-SQU	ARE FEET.	
Number of Sections	E 7.2	20 in. in Height, d Sq. Ft. per Section.	18 in. in Height. 5 % Sq. Ft. per Section.	16 in. in Height. 4% Sq. Ft. per Section.	in Height.  Sq. Ft. per Section.	13 in. is Height. 3% Sq. ff per Sec.
2	6	12	. 103/3	91/3	. 8	71/
3	9	18	16	14	12	73/3
4	12	24	21 1/3	183/3	16	
5	15	30	263/3	23 1/3	20	142/3
6.6	18	36	32	28	24	18 1/3 22
7	21	42	37 1/3	32%	28	
8	24.	48	423/3	37 1/3	32	25% 291/3
9.4	27	54	48	. 42	36	33
10	30	60	53 3/3	46%	40	363/3
1	33	66	583/3	5133	44	401/3
13	36	72	64	56	48	44
13	39	78	693/3	603/3	52	473/3
	42	84	743/3	65 1/3	56	511/3
15 16	45	90	80	70	60	55
17	48	96	85 1/3	742/3	64	58%
18	51	102	903/3	791/3	68	623/3
19	54 57	108	96	84	72	66
20	1 10 10 10 10 10 10 10 10 10 10 10 10 10	114	1013/3	883/3	76	693/3
21	60	120	1064/3	93 1/3	80	731/3
22	66	126	1:2	98	84	77
23	69	132	117 1/3	1023/3	88	80%
24	72	138	1223	107 1/3	92	841/3
25	75	144	128	112	96	88
the state of the s	10	190	1331/3	1163/3	100	913/3

stimating length of Radiator allow % inch for each plug or bushing.

### WALL RADIATORS.

FOWLER & WOLFE PATTERN.

### Made in Four Different Sizes.

Cape of S	acity ection	Width, Inches	Length, Inches	Thickness, Inches	Ca	pacit	y One	Inch l	Pipe
5 sq.	feet	13	17	3	15	feet	of i	nch pi	no.
6	66	13	21	3	18	66	66	6	1
7	66	13	24	3	21	66 .	66	66	-
9	16	13	24	3,4	27	66	66	0 66	* **

These may be built into stacks horizontal or vertical. The measurement will be calculated by the number of loops connected together according to the

### DINING ROOM RADIATORS.

FOUR COLUMN. DAISY ORNAMENTAL. HEIGHT-38 IN. ONLY.

### Sizes and List Price.

Size	No. of loops in Radiator (exclusive of Oven)	Square Feet of Heating Surface	Extreme Length, Inches	Price, without Top	Price with Plain Top	Price with Plated Top
AA	2	21	28	\$48 31	\$50 25	<b>452 85</b>
A	4	37	36	53 83	55 50	58: 20
<b>B</b>	6	53	44	60 61	63 00	66 30
C	8	. 69	52	68 14	70 50	74 40
D	10	85	60	74 25	78 00	82 50
E	12	101	63	80 95	85 50	90 00
F	14	117	76	87 73	93 00	98 70

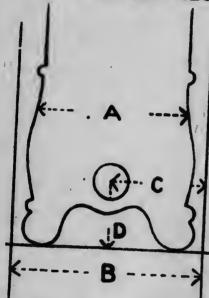
Ovens are 21 inches long by 18 inches wide.

### TRCLE RADIATORS.

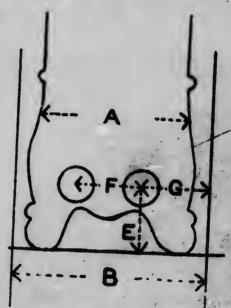
16.	1. The state of th	2000		Name of the last o		2	FOUR COLUMN.	Z
To. of setions	Outside Diameter at Legs	Inside Diameter at Legs	No. of Sections	Outside Diameter at Legs	Inside Diameter at Legs	No. of Sections	Outside Diameter	Laise Laise
	76	<b>L</b>	21	~ ×86	-8%	12	78	1
20	88	6	14	27X	7%	21	<b>8</b>	. =
2: :	27%	10%	16	28%	8%	· 10	20%	12%
* 0	%6% 76%	12%	. 88	29%	<b>%6</b>	18	33%	16%
•	25 K	16%	8	30%	10%	8	3	17
20 (20	31	08	83	31%	111%	83	28	19
80	7	75	2	32%	12%	88	9	8
•	4	8	88	8	13	32	52%	35.1
7- 4	20	88	83	33%	13%		1 )	5/2
<b>9</b>	53	98	98	35%	154		>	ŧ (

Norn.-Circle radiators not made in two column Favorite and Daisy.

### DIMENSIONS OF LOOPS.



Single Connection.



Twin Connection.

	A	В	С	D	E	F	G
Zanda	In.	In.	In.	In.	Iń.	In.	In.
Zenda	4 1/2	51/2	23/4	4 1/2			. • •
Florence	8	8 3/2	4 1/4	4 1/2	436	34	256
Toro	73/4	73/	378	376	376	34	21
Daisy (2-loop)	5	634	31/4	33/	33/	31/	15%
Favorite (2-loop)	5	636	31/4	334	33/	/4	178
Royal.	71/4	814	41/4		33/4	31/4	13/8
Provincial		8 1/2		-/-	••	• •	
Perfect.	71/4	072	4 1/4	378	•	• •	• •
	74	0/4	4 78	3 7/8	378	31/4	21/2
Trident	9	9/2	4 1/4	4 1/2	4 1/2	31/	33/8
Daisy (4-loop)	81/4	8 1/2	4%	4	4	33/	256
Favorite (4-loop)	81/4	81/2	41/4	4	4	31/	256
Ideal	83/	83/	43/8	6	6	31/	92/
Acme.	123	123/	636	3	9	074	4/4

### TAPPINGS.

### The following list applies to all radiators:

### ONE PIPE STEAM.

25 squa	re feet and under	A	
Above t	00 but not exceeding 10	0 square feet	11/2 "
	00 square feet		

All one pipe connections, unless otherwise ordered, are tapped left hand. All connections are tapped eccentric.

### TWO PIPE STEAM.

48 square feet and under		The state of the s
The same of the sa	muero toot	
Above 95 square feet		4×14-"

All two pipe connections, unless otherwise ordered, are tapped right hand. Return opening is tapped eccentric.

### WATER, SINGLE OR TWIN CONNECTIONS.

The state of the s	<b>是</b>		90	-07171 TO TTO TTO	1719
4X samere	Cont 1		100	A	x l inch
-c adnate	reet and u	nder	Take the state of		中部 5000000000000000000000000000000000000
	10 mm	5 17 5, 7			w linch
Above 48	best and and		The state of the s		A L A HICH
		N N N N T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		r in 1 mm	
A C C A C	the wine of		- ad- 16		T. 11 66
PEADOVE III	Causes for	ma			
	advanc 16	EL		· · · · · · · · · · · · · · · · · · ·	A Service and the service as
#	The same same			* * * * * * * * * 1 54	X 1 12 66
	- 1 mag. 1	the state of	An a fine comment	- Nu m	1: 18 1 Mar 1

All twin connections, unless otherwise ordered, are tapped left hand. Single connections are tapped right hand. All Hot Water Radiators are shipped twin connection, tapped left hand, unless otherwise ordered.

Wall Radiators are tapped top and bottom same end left hand for hot water unless otherwise ordered.

When using union valves or union elbows please state this fact in ordering so that connections may be tapped right hand,

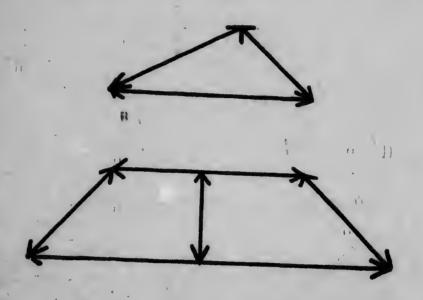
### TAPPINGS FOR WEBSTER SYSTEM.

Size of Tappings for Radiators with Webster System.

RADIATO	RS CONTAINING:
Square Feet of Surface.	Supply and Return.
From 1 to 30 sq. ft.	1/2 in. Supply, 1/2 in. Retu
" 31 to 80 "	
The second of th	
" 81 to 150 "	1 ", " "
" 151 to 200 "	14 " " 1/2 " "
" 201 to 300 "	11/2 " " 3/ " "
	74
" 601 to 1200 "	21/2 " " 1 " "

Note.—Return Openings are tapped eccentric.

### SPECIAL MEASUREMENTS.



In ordering angle radiators, where it is not convenient to send templet, it will be quite satisfactory to send sketch as above, with exact measurements of the different lengths, as shown.

For curved radiators, if the curve is a section of a true circle, the radius of the circle will be sufficient; if not, a templet, preferably in wood, but satisfactory if made of heavy paper, is necessary.

If ordering "twin connections," state whether wanted on right hand or left hand side facing radiator.

### DIMENSIONS OF OPENINGS.

OF BACK INLETS, TWO AND FOUR COLUMN, DIRECT-INDIRECT, AND IDEAL FLUE VENTILATING RADIATORS.

### TWO COLUMN DIRECT-INDIRECT.

Width of collar	23/ inches
Length of smallest collar	-74 inches,
Simulation Collection	01/2 "

which can be increased by any multiple of two and one-half inches to the desired length.

### FOUR COLUMN DIRECT-INDIRECT.

Width of collar	2¾ inches.	
miliah ana tata		

which can be increased by any multiple of four inches to the desired length.

### IDEAL FLUE VENTILATING.

Size of	Radiator.				Din	ens	ions o	ns of Collar.			
3 s	ections	•••••	• • . • •	• • • • •				inches.			
4	•	• • • • •	• • • • • •	• • • • •	3	x		44			
5	66	•••••	• • • • • •	• • • • •	3	×	7	66			
6	**		• • • • • •	• • • •	3	x	81/2	, 66			
7				• • • • •	. 31/2			66 "			
8 .	"	•••••		• • • • •			11%	66			
8.	W. 6	*****		••••	31/2						

and for each additional section length is increased three inches

TRIUMPH ROUND HOT WATER BOILERS.

Price List, Dimensions and Capacities,

	2				Dimen							
Number of Heater	Capacity Cast Iron Radiation including mains. Square feet	Capacity Cast Iron Radiation, not including mains. Square feet	9.	Capacity one-inch pipe, not including mains. Lineal feet	List Price	Height to Top Outlet of Boiler. Inches	Ht. to Top Outlet of Headers.	Outside Diameter at Base. Inches	Diameter of Grate. Inches	Size of Smoke Outlet. Inches	Number and Size of Outlets of Boiler. Inches	Number and Size of Outlets of Headers. Inches
2-19	575	430	1725	1290	\$ c. 114 00		56	30 36	19	89	2-21/2	4-2
3-19	650	490	1930	1470	150 00						-21/2	4-2
2-22	875	_		_	184 00				22	92		4-2
8-22	950	- 1			190 00		1 1			92		
2-25 1	025				205 00	1	64 3					4-2
3-25 1	150	1	- 1	- 1	224 00		69 3				31/2	8-2
-28 1	500								25	92	31/2	8-2
00	0.00			010	256 00	05 1/2	05 4	136	28 1	0 2-	4	8-2
-20 1	DOU!	250 4	950 3	750	326 00	601/2	70 41	136 2	8 10	2-	4	8-2
-312	100 ]	5756	300 4	725	392 00			1 1/8 3		1		4-21/2
					100 00		15 44	14 9	1110			4-21/2
34 24	75	9007	105 =	E00	120 00	74	0 44	78 3	110	2-4	*  {	4-2
		000/1	240 0	<b>200</b> 4	10 00	81 56 7	2 48	78 3	4 11	2-8	5  {	4-21/2
34 27	25 2	05081	75 6	150 4	24 00	36 1/8 7	7 48	76 3	4 11	2-5	5	4-2½ 4-2

For additional measurements see pages 23 and 24. Domestic Water Heaters for above, each \$3.00.

### TRIUMPH

### ROUND STEAM BOILERS.

Price List, Dimensions, and Capacities.

No.	Height (to top outlet) Inches	Outside Diam. at Base, Inches	Diam. Grate Inches	Height Water Line, Inches	One Outlet and two Inlets Size, Inches	Ratings (see note) Square Feet	Size of Smoke Outlet, Inches	List Price
2-198	57	301/2	19	50	21/2	350	8	\$140 00
3-195	61 1/2	30 1/2	19	54 1/2	21/2	400	8	158 00
2-225	5834	<b>3</b> F	22	531/2	3	525	9	182 00
<b>3-22S</b>	63¾	\$.	22	56 7%	3	575	9	210 00
2-25S	61¾	38	25	34%	31/2	625	9	215 00
3-255	6634	38	25	5914	31/2	700	9	226 00
2-28S	621/2	413%	28	56	4	900	10	274 00
3-285	677	413%	28	6134	4	1000	10	296 00
2-315	66	441/8	31	57%	4	1275	10	326 00
3-315	713%	443%	31	6314	4	1400	10	350 00
2-345	69	48%	34	593%	5	1500	11	387 00
345	75	487/	34	65 1/2	5	1650	11	425 00

For additional measurements, see pages 23 and 24

Norg.—Ratings are gross, and provide that all piping (mains, returns risers) shall be figured as radiation in estimating size of Boiler required.

Domestic Water Heaters for above, each \$3.00.

11

APH SECTIONAL BOILERS.

Steam.

,	
No. of Boiler	W-15-6 W-15-8 W-15-8 185 185 186 187 W-21-6 W-21-7 246 246 246
Rating. Square feet (See note.)	700 1100 1300 1325 1025 1250 1325 1650 2000 1500
List Price	\$ 180 180 2210 2210 2220 2230 2230 2330 244 392 440
Number of Outlets	200000000000000000000000000000000000000
Sm'ke Outlet, Ins.	
Length of Smoke Hood, Inches	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Grate, Inches	15x24 % 15x30 % 115x30 % 115x37 % 115x43 % 118x36 % 118x3
Foundation Inches	24 x 29 24 x 35 24 x 35 24 x 41 30 x 26 x 30 x x 36 30 x x 43 30 x x 50 42 x x 33 x 42 x x 33 x 56 x x 33 x
Width, Inches	8888888833333 XXXX XXXX
*Length Inches	28848484848888888888888888888888888888
Number of Sections	8188188188188
List Price	196 196 286 286 286 286 286 286 286 286 286 28
Rating, Square feet (See note,)	425 675 880 580 580 580 1000 1200 1300 1500
No. of Boiler	S-15-5 S-15-6 S-15-7 085 087 087 087 047 048 047

\*Add to length given, the length of smoke hood for total length.
For additional measurements see pages 26 and 26.
Norz.—Ratings are gross, and provide that all piping (mains, returns and risers) shall be figured as radiation in estimating size of Boiler required.

## TRIUMPH SECTIONAL BOILERS. Water.

Steam.

No. of Boiler.	W-30-6 W-30-6 W-30-8 366 366 368 368 368 368 368 368 368 36
Rating. Square Feet. (See note.)	2100 2675 3250 3825 2950 3700 4450 5200 5950 6125 7425 8750
List Price.	\$ 430 570 586 684 684 1,576 1,375 1,585 2,000 2,220
Number of Outlets.	444444444444
Smoke Outlet, Ins.	EEEE 44444622222
Length of Smoke Hood, Inches.	KKKKKKKKK GGGGGGGGGG
Grate. Inches.	30x28 30x28 30x42 30x49 36x323/ 36x403/ 36x673/ 36x653/ 48x64 48x64 48x75/ 48x807
Foundation. Inches	32 x40 39 x40 46 x40 53 x40 53 x40 53 x40 55 x49 x 65 x52 66 x52 88 x52 88 x52 89 x52
Width,	66969111111
*Length. Inches.	3884831884886 588484 XXX XXXXX
Number of Sections.	00000000000000
List Price.	\$ 500 675 675 760 1,082 1,980 1,985 1,910 2,134
Rating. Square feet. (See note.)	1275 1625 1975 1975 1800 2250 2250 2700 3150 3150 4500 6900
No. of Boiler.	S-30-5 S-30-6 S-30-6 S-30-7 S-30-8 065 067 067 068 S-48-6 S-48-9 S-48-9 S-48-10

igth given, length of smoke hood, for total length.

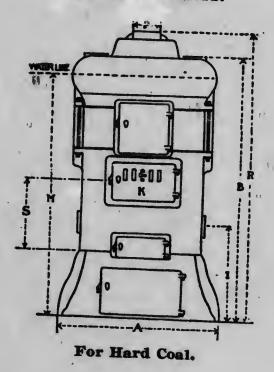
In measurements see pages 25 and 26.

Lings are gross, and provide that all piping (mains, returns and risers) shall be figured as radiation in

### TRIUMPH

### ROUND HOT WATER AND STEAM BOILERS.

### MEASUPEMENTS.



Above outlines do not represent the Water Boiler. Outlines of Steam Boiler used to show measurements of both types.

### TRIUMPH

### ROUND HOT WATER AND STEAM BOILERS.

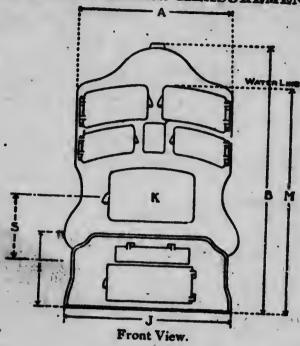
### MEASUREMENTS-Continued.

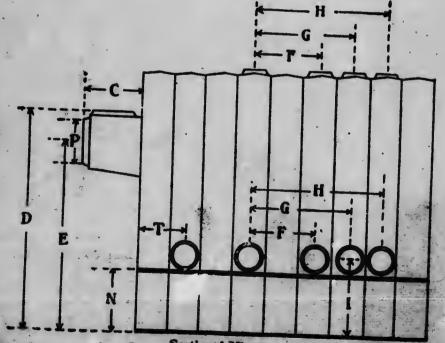
Table of distances between points as outlined on skeleton sketch of Boilers shown on opposite page.

These measurements are given in inches.

		-		STEAM.				
No.	A	В	1	к	M	P	R	S
2-19-S	30 1/2	57	1434	8½ x 11¾	80	-		-
3-19-S	30 1/2	61 1/2	143/	8½ x 11¾	50 54 1/2	8	6414	153
2-22-5	35	5834	16%	9 x 13 1/4	531/2	8 9	6834	153
3-22-5	35	6334	16%	9 x 13 %	567/8	9	67	16
2-25-5	38	6134	173/2	9 x 13 ½	5414	9	711	16
3-25-S	38	6634	1736	9 x 13 %	59 %	9	70¼ 75¼	16
2-28-S	413/8	62 1/2	1734	956 x 18	56	10	70%	16
3-28-5	413/8	67-7	17%	956 x 18	6134	10	76 %	18 18
2-31-5	441/8	66	18	956 x 18	57 🔏	10	7434	
3-31-S	44 1/8	717/8	18	956 x 18	63 7	10	81 1/4	19%
2-34-S	48 78	69	19	956 x 18	593%	ii	77%	191/2
3-34-S	487/8	75	19	9% x 18	651/2	ii	841/4	20
			W	ATER.		1 1		
Nc.	A	В	I	K	P	R		S
2-19-W	301/2	503/8	1434	91/-112/				
3-19-W	30 1/2	54 7/8	1434	8½ x 11¾ 8½ x 11¾	8	57		1534
2-22-W	35	52 1	16%	9% x 13%	8	62		1534
3-22-W	35	57%	16%	9% x 13%	9	60		16
2-25-W	38	55	17%	9 1 × 13 1	9	64		16
3-25-W	38	60	173/2	9% x 13%	9	63	3	16
2-28-W	4136	55 1/2	1734	9% × 18	10	63		16
3-28-W	4136	601/2	17%	9% x 18	10	68	<b>. 400 March</b>	
2-31-W	44 1/6	59	18	9% x 18	10	67		18
3-31-W	441/6	6434	18	9%×18	10	743		191/2
-34-W	48 7/8	61 56	19	9% x 18	11	70)	2 6	191/2
1-34-W	483%	665%	19	9% x 18	ii	753	2 6	20

TRIUMPH SECTIONAL BOILER MEASUREMENTS.





Sectional View.
For letails of measurements see page opposite.

# TRIUMPH SECTIONAL BOILER MEASUREMENTS-Continued.

Table of distances between points as noted upon the outline drawings of TRIUMPH Sectional Boilers shown on opposite page. These measurements are all given in inches.

	•	•
Boilers	Steam	1914 188 28 28 28 28 28 28 28 28 28 28 28 28 2
48 inch	Water	192: 1888888393988 1782: 188828383888
Boilers	Steam	25000000000000000000000000000000000000
38 inch	Water	251000000000000000000000000000000000000
Boilers	Steam	82
30 inch	Water	85 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Boilers	Steam	92449328888944210 XX448XXX XX8X 4X
24 inch	Water	28272 242 2888 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
21 inch Boilers	Steam	81528718212835 81528718378 815287 81727 81
21 inch	Water	242 251 252 253 253 253 253 253 253 253 253 253
Boilers	Steam	825.14.47.13.88.88.44.13.88.88.44.13.88.88.44.88.88.44.88.88.44.88.88.44.88.88
18 inch	Water	826124 4711528 128 87 178 118 118 118 118 118 118 118 118
15 inch Boilers	Steam	25 4 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
15 incl	Water	23802888888824 73881 XXX
1		4m2UNFOH-PXZZFOF

o. 300 and No. 069 the Smoke Hood length is 10% inch

### STANDARD DIMENSIONS OF STEAM HEATING BOILERS - WITHOUT DOMES.

### TESTED FOR 100 LBS.-WORKING PRESSURE.

1 8	4	Shell.	ness ads	Tu	bes.	in de	4	1.00	6	8
Diam	- Least	Thickne of Shell	Thickness of Heads.	No.	Diam.	Heating Surface.	Horse Power at 16 sq.	1 20	Diam. Stack.	List Price.
30 36 36 40 42 42 44 44 48 48 48 52 52 54	8 10 10 12 10 12 10 12 10 12 10 12 14 12 14 12 14	Totale tertale tertale to to the late of t	a estas estas cutas estas	22 29 32 32 38 38 40 40 44 44 52 52 52 58	******************	178 222 313 374 369 441 389 464 424 507 495 594 686 658 764	14 21 25 24 29 26 31 28 34 33 39 46 44	2800 3300 4550 5050 5200 5750 5700 6300 6050 6700 7400 8150 8950 9100 10000	24	\$430 00 468 00 580 00 632 00 660 00 682 00 700 00 752 00 752 00 800 00 880 00 940 00 050 00 068 00 126 00
54 60 80	14 12 14	16 16 16 16	8	64 64 78 78	3 3 3 3	720 836 865 1005	57	9600 10650 11400 12400	26 1 26 1	115 00 208 00 300 00

NOTE—A horse power for low pressure heating purposes is considered quivalent to 100 square feet gross radiation.

Note—While we quote a regular discount on these boilers. on account the continued variations in the metal market, it is advisable to write and our net prices for these when required.

### STANDARD STEAM, GAS AND WATER PIPE.

### BLACK AND GALVANIZED.

Nominal Size Inside Diameter. Inches.	Price per foot	Nominal Thickness.	Nominal Weight per foot. Pounds.	No. of Threads per inch of Screw.	Thread Price List.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 ½ 5 ½ 5 ½ 8 ½ 11 ½ 16 ½ 22 ½ 27 36 57 ½ 75 ½ 95 -1 08 1 30 1 45 1 88 2 35	.068 .088 .091 .109 .113 .134 .140 .145 .154 .204 .217 .226 .237 .246 .259 .280	0.24 0.42 0.56 0.84 1.12 1.67 2.24 2.68 3.61 5.74 7.54 9.00 10.66 12.49 14.50 18.76	27 18 18 14 14 11½ 11½ 11½ 11½ 8 8 8 8 8	.05 .05 .05 .05 .06 .07 .08 .10 .15 .20 .25 .35
8 9 10 11 12	2 82 3 40 4 25 4 75 5 20	.301 .322 .344 .366 .375	23.27 28.18 33.70 40.00 45.00 49.00	8 8 8 8 8	.85 1.00 1.25 1.50 2.50 2.50

### RADIATOR VALVES.

SIZE	1%	*	1	1%	11%	2
N.P. W.W. Standard, without union	8	\$ c. 2 10	\$ c. 275	\$ c.	8 C.	8 c.
N. P. Quick Opening, angle or	• • • • • •	2 90	3 75	370 500	4 85 6 50	10 00
N. P. Ouick Opening, angle or	•••••		2 65	3 70	5 00	7 75
N.P. W.W. Standard Globe, without		2 85	3 65	5 05	7 10	10 85
N.P. Radiator elbows, with union Jenkins or D.R. N.P. mt'gs, with-	1 70	2 10 2 00	2 75 2 50	3 70 3 20	4 85	7 60 7 00
Jenkins or D.R. N.P. mtgs. with	2 30	2 80	3 50	4 80	6 55	10 80
Jenkins or D.R. N.P. all over, with-	3 05	3 80	4 60	6 15	8 05	12 90
Jenkins or D.R. N.P	2 40	2 90	3 60	4 90	6 65	19 90
Jenkins or D.R., W.W. N.P. Globe	3 15	3 90	4 70	6 25	8 15	13 00
N.P. Gate W.W. without union	2 40 2 00	2 90 2 60	3 60 3 45	4 90 4 70	6 65 6 35	10 90 9 80
N.P. Govt Pattern, fin. all over	3 10	3 75	4 65	6 10	7 85	12 10
Elbow Gate valves, without union.		4 35	5 45	6 60	7 90	11 00

### RADIATOR AIR VALVES.

Compres	sion, wood wheel	Per doz	* 0 4
66	metal wheel	1 CI UUZ.	4 5
	100se KeV	66	2 5
Loose K	Cys. CXIIA	66	10
	ACT MOL WHILET	44	20 0
Jenkins,	automatic	44	
	CUUM CERTA	44	10 0
Allen, au	LUMBATIA I	44	2 5
Norwall	automatic		15 0
Monech	No R automati	••	22 5
Monach	No. 6, automatic	66	30 0
Davie M.	100. 14	44	35 0
Davis M	2. 7	4.6	20 0
Libra	No. 7, " 3. 7 "	6.6	13 0
100	No 0		20 0
(A)	No. 2, automatic.	44	10 00
-			20 0
	No. 5, automatic	• •	00.00
			20 00
Extension	Pieces	44	0.00
		•	3 00

# STANDARD BRASS VALVES, BRASS AND IRON COCKS.

* * * *	1.100		01 m		82.8 17 12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	
1	1088	00 00 01 00		278888 40	88 8 99 8	25 12 12 13 15 15 15 15 15 15 15 15 15 15 15 15 15
11/2 1	1 . 69 6	8888 8000	23228 200-20-20-20-20-20-20-20-20-20-20-20-20-	<b>2</b>		9 0
14.		- www	40000	23885 2000 2000 2000 2000 2000 2000 2000 2	228	8 % 988
76	1 325	3388	9 92		900	888
-	1 088	3 22	12 : R : 7	85835 1880-3 88558		847.50 24.50
ì	2 US	R	8	28888: 22288:	388	888
Ŀ	-   48	8	<b>8</b> 3	88888 88888		888

## STANDARD IRON BODY VALVES.

	, t.	
2	# 25 88 8888 88 # 25 88 8888 88	88
-	# 10 88 88 88888 88 88 88 88 88 88 88 88 88	I
	88 88888 8888 88	
-	# 28 882828 \$388 58 88 B	38
	0 88 88 888 8 2 2 8 8 8 8 8 8 8 8 8 8 8	K
8	1	
4%		
-	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	2000
3%	* : : : : : : : : : : : : : : : : : : :	8
3	**************************************	8
2%	42005 HUMA DECORUM NUCO 0000 0000	8
01	**************************************	
1%	9 999	
1%	88	
7	ਚੀਆਰ ਜੰਦ ਦੇ ਤੁਰਾਹਾਂ ਦੇ ਜ਼ਰੂਰ ਦੇ ਦੇ ਦੇ ਦੇ ਦੇ	70
	SENE SEES EN SEES EN SEES EN SE EN S	E
Sizes.	without Y with with Valves Valves Valves Trav'se	
(A)	Globe & Ang. Val. without in the intervention of the intervention	
	Globe & Ang. Val. v  Horizontal Check Vangle Angle Vertical Cross Safety Valves Angle Cross Angle Cross Angle Swing Check Valves Jenkins Disc Check V  Expansion Joints, Ire Expansion Joints, Ire Expansion Joints, Ire Weber Valves	
	Globe & Ang. Val. without in the control of the con	

### MALLEABLE IRON FITTINGS.

Classification.

	_			
		8 213		1% and larger 1% and larger 1%, 9
	6	18	36.	1% %, 1 1% and larger 1 and larger 1 X, 1  X, 1
	၁	₹		X. X
	8	286.5	•	X. X
	<	40c.		X. XxX. XxX. X. X. X. XxX. XxX. X. X
	CLASS	List Price Black per pound Galvanize		Elbows, R. and L. K. KxK. MxX. Elbows, Straight Elbows, Straight Elbows, Drop Elsows, Side Outlet Tees, Rour Way Tees, Drop Crosses, straight Crosses, straight Crosses, straight Crosses, straight Crosses, Reducing Return Bends, R. & L. Couplings, R. H. Couplings, R. H. Couplings, R. and I.

NOTR—Fittings in Class D having one or more outlets smaller than % inch will be charged to Class C. Fittings in Class E having one or more outlets smaller than I inch will be charged to Class D.

## CAST IRON FITTINGS.

	-	LAST TRON FITTINGS.
		4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
		188 8 8 8 8 8 8 8 8 8 8
,44	-	AND E SH NR : PRINCE OF THE STREET
		MACHINE TO THE THE PROPERTY OF
200	1	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	-	TURE IR RE NO CHOCK OF THE STATE OF THE STAT
270	7	944 9 0 90 99 99 60 60 60 60 60 60 60 60 60 60 60 60 60
		122 3 88 88 : 32884 : 8 : 8 : 8 : 8 : 8 : 8
7 3		J28 :2 22 22   D2020   H   H   H   H
7.2		
Е	7	4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
d	***	182 3 28 38 : B 88 8 : 8 : 8 : 8 : 8 : 8 : 8 : 8 :
L	×	1428 : 20 20
3.0	-8	
ı		** ** ** ** ** ** ** ** ** ** ** ** **
ı	%3	9888 W 83 % 38823 W 448 M 388
2		****** ** ** ** ** ** ** ** ** ** ** **
57	1%	2007 24 00 00
N.		SOME OFFICE OFFI
	17	
	-	25: 8 5555 SE 55 55 55 55 55 55 55 55 55 55 55 55 55
	×	12220 H4 10
ŀ	X X	828: 8885 555: 8: :: : : : : : : : : : : :
	X	5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
7		0.8.8
		Reducing Reducing Reducing Gorn Corn Corn Corn Corn Corn Corn Corn C
ı	2	Tanan Tanan Land
1	Sizes	Elbows, C. I.  Tee  Tee  Reducing.  Crosses.  Reducing.  Caps. C. I.  Reducing.  Reducin
		Reduce Country R. H. F. C. I. Country R. H. H. F. C. I. Country R. H. H. F. C. I. Country R. H. F. F. H. F. Country R. H. F. F. H. F. Country R. H. F. F. H. F. F. H. F. C. Country R. H. F. F. F. H. F.
		Reducers, Couplings, Hexagongs, R.H.  Plugs, R.H.  R.H
_	-	Elbows, C. 1.  Tee Reducing Crosses.  Reducing Crosses.  Caps. C. I. Reducers, C. I. Couplings. W. Hexagon Ra. H. Plugs. R. H. Plugs. R. H. R. H., G. Solid. Countern Bushings. R. H. R. H., G. Solid. Countern Bushings. R. H. R. H., G. Countern Bushings. R. H. Galveles Gercuf'c Range Boiler C Crossovers. Bla

# LONG SWEEP (WATER) FITTINGS.

	- 6	-	-				
		2	100	88	85	H	18
	-	_	1	40		U,	
		2	100	88 88	38 88	H	H
	-		1 4	88	00	00	
		•	-	AG	38	別に	58
		00	5	38	88	38	SI S
		-	38		11 11		
	_	-	05	3 83 9	38	3 19	
		•	27		18:	1	
			J.S		1 I 1 T		
			46	No.	4	9	
	-	2	40.00	8%		181	8
		_	08				3
			7700	200	94	101	88
	7	3	18	38	<b>128</b>	28	2
	38 8		0%	32	98	22	0
	-		<b>999</b> 1	700	00	-	3
	2%		18: 0-0	38	NS.	82	
ı	99		18	38	98	38 20	B
ı	76	+	1125	200	383	900	50
ı	-	1	198		7	20	01
ı	1 1% 1%	1.	138				3
ľ	M	1	1835	388	388	38	
l			:			: :	
ı							
ı			r Elbows		bows, Red's		200
	2		100		2		
	Sizes		S H	2 3	6.6	3	
			四十	S S	<b>2</b> 10 10 10 10 10 10 10 10 10 10 10 10 10	200	
			33	व द	53	100	
		3	36	\$ \$	2 ×	> 4	
			-01	7	-31	5	
			No. 2 Dbl. Water Elbo		S S	55	1

## PIPE HANGERS.

	14::8" 2::::
3	3 8 8 3 8 8
-	UNAN A
•	の
-	JERR R
	UNAS 2
10	0382 S
43%	1 JERE 9
1-	10883 3 : :
76	10999
3%	4
8	1888 8888 1888 8 1988 8 1988 8
3	JANA 8
09	18888 KKBP
1%	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1%	0000 0000 00000 00000 00000
	* 04998
-	1223 8588
*	**************************************
×	0 : 8 38888 0 : 8 38888
Sizks	Grabler Hanger "ithout plates  Grabler Hanger Though black Bar, 10 foot  Extension Bar, 10 foot  Ring Stays, short, black per 100 5  long, black Bar is galvanized galv

38 :

1

# BLACK AND GALVANIZED UNION.

	10	288c
	B	10288
11 30	0	13885
2%	B	12885
	13	9788
67	B	3584 3584 3181
100	0	0845
1 1 1 1 1	B	0888 * 84
1	0	€ 28 88 0 28 88
1 X	B	10488 10488
	IJ,	38820
-	m	sp c数容数 sp 二
	1 3	1989
×	B	2283 248 348
75	BGB	い路形践
	121	2882
*	0	1888 1
	m	ប្បទន្ល
×	81	2238
12	4	೧ಹಶಿವ
4		
1 2		
j.		
IZE		
SE		
		ip efferson ewance
		rson
^		- Page
		04 5
-		7-7

## FLANGE UNIONS.

# GRABLER STEEL HOOK PLATES.

<b>04</b>	8 78
1%	25 75
1%	30 3
1	30
Size	Number of Hooks

## BRANCH TEES OR HEADERS.

	1 inch B	anch Tees	1¼ inch Branch Tees.	1½ inch Branch Tees	2 inch Branch Tees		
	2½ in a Centre to Centre 2 inch Run 2½ in. Run		3 inch Centre to Centre	3½ inch Centre to Centre	4½ inch Centre to Centre 3½ inch Run		
			2½ inch Run	3 inch Run			
2	\$1 15	\$	\$	\$	\$		
3	1 35	• • • •	2 40	3 80	<b>8 25</b>		
4	1 60		2 85	4 60	7 75		
5	1 85		3 55	5 50	9 25		
6	2 10		3 95	6 25	10 75		
7	2 45	• • •	4 20	7 25	13 00		
8	2 75		4 95	7 75	14 00		
9	3 40	4 30	6 15	9 00	15 00		
10	4 00	5 00	6 85	10 00	16 50		
11	4 80	5 50	7 25	10 75	10 00		
12	5 10	5 85	7 65	11 50	* • • • Fire		
13	6 00		8 25				
14	7 25		9 00				
15	7 25		9 75		***		
16	8 25		10 95		156		

Norg.—All openings in branch tees for circulation are tapped right hand.

Branch tees for box coils are always tapped left hand in branches, and right hand in back inlet.

## HOOK AND RING PLATES.

Number of Branches 11	1	2	3	4	5		6		7		8	9	10		11	1	12
HOOK PLATES.  1 in. pipe, 2½ in. centre to centre 1½ " 3½ " " 2 " 4½" "	c. 09 10 15 22	18 21 28	- c23274365	26 32 58	\$ 34 7: 1 1:	1 2	c. 38 52 88 35	\$	c. 48 68 10		c. 59 80 25	\$ c. 65 90 40	\$ 6 7 1 0 1 5	505	\$ c. 85 1 35 1 65	\$111	c. 00 40 90
RING PLATES.  1 in. pipe. 2% in. centre to centre  1% " " " " " " " " " " " " " " " " " " "	16 21	28 35	41 50	50 62	65		72 10	1	96 25	1	00 <b>4</b> 0	400	2		-	_	

## VROUGHT IRON NIPPLES.

BLACK IRON-RIGHT HAND.

		,	
		21	。 ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・
PLES		=	- 11-13000 4-0000 - 12200 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
G NIP	HES	* 93	**************************************
A LON	IN INC	ü	**************************************
OF EXTRA LONG NIPPLES	LENGTHS IN INCHES	<b>00</b>	**************************************
0 8	LE	-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
PRICE		8	10000000000000000000000000000000000000
		W.	0388513888 044
1	1	4	92928
CES		Pong	• • • • • • • • • • • • • • • • • • •
PRICES		Close or Short	0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.
•	soq	Size, Inc	ZZZZZ ZZ Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z
		÷	2222 444 44 400000000000000000000000000
HES		Long	wwwwwaaaaaagoogoo
INC		7	agagamananananan ka
LIE IN	_		anadonumum manama
LENGTH IN INCHES		Short	HANN XXX
	,	Close	** ***** *** ****

## WROUGHT IRON NIPPLE.

BLACK IRON-RIGHT AND LEFT.

## WROUGHT IRON NIPPLES.

NIPPLES		21	
N		# .	**************************************
VANIZ	H 23	10	**************************************
6 GAL	IN INCHES	00	**************************************
ERTRA LONG GALVANIZED	LENGTHS	•	1444888288188888888
Earn	LE	ar.	02222242432255 022222242432255 0222222422422222
PRICES OF		•	1022288884888
PRICE		, ro	**************************************
		Foug	022222 02222
PRICES		Short	0888817428588888888 0111113888488528838
1	soq:	Size, Inc	ANNE ZXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	i		NANA XXX
HES		Long	000000044444000000
r Inc		3	Sandamanananananananan XXXXX
E	-		annunggennungg 4440000
LENGTH IN INCHES	_	Short	XXXX XXX
		Close	XX XXXXX XXX mmma-

## WROUGHT IRON NIPPLES.

1	
	Σ
	2
	0
	Z
	3
	-
	-
	GH
	CH
	$\Xi$
ı	4
	1
	_
	8
	~
ľ	Z
	Z
B	< □
ŀ	>
	3
Ķ	9
C	)

PRICE OF EXTRA LONG NIPPLES. Length in Inches.	Long 4 6 6 7 8 9 10 11	\$ c. c. c. \$ c. \$ c. \$ c. \$ c. \$ c. \$ c
PRICES	Close or Short	80.00 00 11 12 12 12 12 12 12 12 12 12 12 12 12
spies	Size, Inc	XXXXX XX XX X
OTH IN INCHES	Toug	00000000000000000000000000000000000000
LENGTH	Short	· XXXX XXX
	Close	XX XXXXX XXXX

## FLOOR AND CEILING PLATES.

SIZES 6	1%	*	1	1%	1%	2	23%	3	3	K	4
C. I. Floor	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.		\$ c.		c.	\$ 0
" Plated	12	06	08 14		14 22 15 30 23 30	16	24	30	3	5	4
C. I. Double Floor. Plain		12 15 30 13 17 22 26 14 22	15	18 15 30 18 23 32 37 22 30	16	26		45		1	
" " Plated		30	30	30	30	••		••		1	
C. I. Ceiling Plain	11	13	16	18	23	27	36	50		6	6
Plated	14	17	20	23	30	35		•		9	O
C. I. Ceiling, 2 piece. Plain		22	20 28 32 18 24	32	40 48 30	50 58 35	65	90	1 0	oli	2
Spun Brass FloorPlated	2:	26	32	37	48	58				۷.	Н
Spun Brass Ceiling . Plated	14	14	18	22	30	35	42	55		П	
Spun Brass Ceiling,	20	22	24	30	35	43	55	75		ı	
with set screw Plated	22	24	90	90	-	40				1	
Model 2 piece Floor ( Plain	14	14	26 18 28 28 28	32 20 32 32	38 24	28 38 38 38	60	80			
and Coiling   Plated	25	25	20	20	25	20	43	80	9		24
Grabler Floor Plated	25 25 25	25 25	28	32	35	90	52 52	75			50
" Ceiling Plated	25	25	28	32	35	25	52	75	1 10		50
doldfast Floor and				-	~	00	02	10	1 10	71-	31
Country Plated		10	11	12	13	17				L	
H. B. Perfection Fl'r. Plated	10	10	11	12	13	15	30	50			
" Ceiling Plated	25	25	28	32	35	38	52	75			

## GALVANIZED TELESCOPIC FLOOR SLEEVES.

SIZE OF PIPE	34	1	1%	13%	2	21/2	3	31/2	4	5	6	8
Minimum Length, Ins.	14 24 \$ c.	14 24 \$ c.	14 24 \$ c.	14 24 \$ c. 1 50	14 24 5 C.	14 24 \$ c.	14 24 \$ C	14 24 \$ C	14 24	14 24	14 24	14 24
List Price	1 05	ĭ 20	i 35	i 50	80	2 10	2 50	3 00	5 c.	1 50	\$ c. 5 25	\$ 6 6 1

### EXPANSION TANKS.

MADE OF GALVANIZED IRON. COMPLETE WITH GAUGE GLASSES AND MOUNTINGS.

Size,	12 x 24 incheseach, \$	4 00
	14 x 30 "	4 50
Brass	Mountings only, without Glassper set	5 00

### GAUGE GLASSES.

56 x 18	⅓ × 16	% × 14	% x 12	
\$2 00	\$1 50	\$1 25	\$1 00	Per doz
U	<b>41</b> 9	<b>V.</b> 30		

## ASBESTOS AND MINERAL WOOL SECTIONAL COVERING.

### PRICE LIST.

nside Diameter Per Foot.	Coverin	g per Pt	Elbows	Tees	Valves
		Asbestos	Each.	Each.	Each.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ 20 21 23 25 27 30 33 37 41 45 50 54 59 65 75 81 87	\$ 18 20 22 23 25 27 31 36 40 44 47 50 60 65 75 80 90	\$ 20 25 25 25 25 27 31 36 40 44 50 58 65 83 1 00 1 10 1 20	\$ 30 33 33 33 36 41 48 53 59 65 75 90 1 20 1 35 1 50 1 75	\$ 25 25 25 25 25 25 27 41 48 53 59 65 75 90 1 20 1 35 1 50 1 75

Asbestos Cement per 100 lb. bag.  Mineral Wool, per 50 lb. bag.  Asbestos Sheathing, per 100 and 6	\$2.50
Asbestos Sheathing, per 100 sq. ft	5.00

## HAIR FELT.

	In Rolls	CONTAINI	NG	300	SQUARE	FEET.	
74	inch	8	50		hundred	square	feet.
1	inch	10	50		6.	6	• :

い日じ	
NA	H
H	1
OR	1
FLOOR	1
1	ı

	DOMINION RADIATOR COMPANY, LIMITED.
22	888
9	49
-	w
	44366
00	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
-	10 000000
-	w i i i i i i i i i i i i i i i i i i i
	2288888 : : : :
20	0
1	M PH 09 09
3	9
-	884 8
3%	0 : : : : : : : : : : : : : : : : : : :
60	2828 2
	φ:::::::
2%	9 488 8
60 .	1 3 3 3 8 8 S
1%	6 : : : : : : : : : : : : : : : : : : :
	14
1%	년 '목정유 '국
. =	U 2 8 2
*	U :일정 :용
-	(a)
- X.	(a)
* 11	02
	d: :::::
Pre	
*0	
Sizes or Pri	
Siz	**************************************
	SERTICE ENGROPE STREET STREET STREET
	DIVMETER OF PLANGES, INCHES
	and the state of t

The above is considered a complete list.

## CAST IRON FLANGES.

Threaded Flanges.

	PRICE	Faced and Drilled, each	**************************************
	PR	Faced, each	* : = = = = = = = = = = = = = = = = = =
		Inches	жеме 4400-000 02 нининининин 2-1-000 0 0 11212130 0
	Price of	set of one joint	**************************************
	PRICE	Faced and Drilled, each	**************************************
	P.	Faced, each	244688888888888888888888888888888888888
	Size	Inches	нинининининининининининининининининини

## THERMOMETERS AND GAUGES.

N.P. Hot Water To	ES.
N.P. Hot Water Thermometer, straight, each N.P. Hot Water Thermometer, angle, each	\$2.00
scales etmicks with temperature and pre-	2,50
scales angle and pre	4.00
each	5.00
Low pressure steam gauge, with 5 inch dial, iron N.P. rim, each.	9 00
	3.00

## KIELEY STANDARD STEAM TRAPS.

## FOR HIGH AND LOW PRESSURE.

Size Number	1 1	2	3	4	5	A	1 7
Size Outlet	1 %	1	1%	13%	2	1 24	-
No. lineal foot 1 : 1		1	11%	13%	2	214	8
pripe will drain	4,000	6,000	10,000	15,000	25,000	35,000	<b>60.00</b>
Price each\$	25.00	36.00	45.00	60.00	80.00	100.00	50,000

## THE MARCK STEAM TRAP.

No.	Size of Pipe Connection	Capacity in Feet of 1 inch Pipe according to Radiat- ing Conditions.	Price, each
OO O II III IV V VI VII VIII	1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	175 to 450 225 to 900 450 to 2700 900 to 5850 1800 to 6750 2250 to 10800 4500 to 16200 9000 to 24300 18000 to 36000 27000 to 54000	\$ 8 00 11 00 17 00 25 00 32 00 40 00 55 00 70 00 82 00 99 00

# PRESSURE REDUCING VALVES.

	085 085 085 085
-	198
-	1 100
•	*\$8 *88
3%	988
3 3%	\$25° 0.88° 0.88° 0.88°
× ×	190
99	188 188 188
*	188
×	-00
-	188
	*88
	6168
Schee	
Size, inches	
	is No. 1
	V.7

## BACK PRESSURE VALVES.

	-		1800 1800 1800	88	5 (D) 75 (A)
	70   1	2	38	88	
120.	3 3%	100	8 15 8 15 8 15 15 15 15 15 15 15 15 15 15 15 15 15	888 181 181	3 3 3
	2% 3	3 3 3 3 3	51 00 15	88 88 88 88 88 88 88 88	
	-	9:	7	78	
	8				
	Size, inches	Standard, acrewed	Davis Kalas		
		anond			
		Standard,	Davis		

## RADIATOR BRONZES.

	Der Il. 60 a	17	::	::	
		New Green			
	Aluminum.	Vew Green	Park Blue	Bronzing Liquid	
	A		::	Bronzing	
	per lb. 42 00	38:	38:	22.	
		Orange			
Aluminum	Pale Gold Copper	Orange Orange	Crimson	Monday Lake Gold	
Brillian		: :		Cuading	-

## USEFUL DATA AND INFORMATION.

Water Boils in open vessel, atmospheric pressure, sea level at 212°.

Water Boils at lesser temperature than 212° when atmospheric pressure is less, as in case of higher altitudes. The temperature of the resultant vapor or steam will be proportion-

Water Boils in vacuum at 98°. Hence resultant vapor is 98°.

Water Expands in heating from 39° to 212°, one twentythird or about 4 per cent. in bulk.

Water has greatest density or occupies least space at 39° Fahr.

A Cubic Inch of Water evaporated at atmospheric pressure (14.7 lbs.) makes (approximately) one cubic foot of

Multiplying the fleight of a Column of Water by .434 gives pressure in pounds.

Water in Circulation is the best known absorbent of heat, and gives out more heat in cooling through a given range of temperature than any known substance.

Bodies which Absorb Heat Best Radiate it Best.

An Imperial Gallon of water weighs 10 pounds.

A Cubic Foot of water weighs 62% pounds.

A Hundred Square Feet of radiation contains approximately 15 gallons of water.

Heaf Unit, known as British Thermal Unit, or B. T. U. raises temperature of one pound of water 1°.

fleaf Unif, 966 heat units will evaporate one pound of water at 212 into steam.

Heat Unit. A pound of anthracite coal contains theoretically 14,500 heat units.

Heaf ULif. A pound of anthracite coal in the actual burning emits between 8000 and 9000 heat units only.

Heaf Units emitted per hour by a square foot of cast iron radiation, under favorable conditions, will be two for each degree of difference between the temperature of the radiator

A Horse Power. Fifteen square feet of heating surface in a standard tubular boiler is estimated as equal to one horse

Area of a Circle. Multiply square of its diameter by .7854.

Circumference of a Circle. Multiply 's diameter by 3.1418.

Areas of Circles are to each other as the squares of their diameters.

The Area of Any Triangle equals one half the product of the base and perpendicular.

Doubling the Diameter of a pipe increases its capacity four times.

Wrought Iron Steam and Gas Pipe is reckoned by its internal diameter.

Boiler Tubes are reckoned by their external diameter.

A Ton of Hard Coal occupies a space equal to 37 cubic feet.

A Ton of Soft Coal occupies a space equal to 40 cubic feet.

A Ton and a Half Hard Coal to a hundred square feet water radiation, or to fifty square feet steam radiation is the estimated fuel consumption for the winter's firing.

A Ton of Hard Coal is considered equal to a ton and a half of soft coal.

A Square Foot of "Safford" Radiation weighs approximately seven pounds.



## List of Sizes of Hot Water Mains.

		271
· " " " " " " " " " " " " " " " " " " "		7 30
		31 700
The state of the s	liations	Radiations
78		
100	with pipe 700 to 8	80 sq. ft81/2 inch pipe
1 975 to 126	950 to 19	00
1 125 to 175	1200 to 15	75
L 475 to 300	1575 to 19	Mar 44
300 to 475		MR 44
2475 to 700	1975 to 23	
2 210 to 100	2375 to 38	50 44
A Strain Strain		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Mains		Branches
4 4 4 5		
1 in. will supply	23	3/ in
1 134 Marine	<b>X</b>	1 44
132 4	1 1	12/ 450 - 0 4 4 5
2 5 10 3 00	1	and I-I in.
101/ 44 AA		
272	Z-175 18. and 1% in. or	
The North	1-2% in. and 1-1 in., or	2-2 " and 1-117 in
1336	2-21 in. or 1-3 in., and	10 4 2 00 11
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.31/ in and 1.01/ fail	1-2 Or 3-2 in.
TARK OF THE STATE	1-3% in. and 1-2% in., or	2-3 " or 4-2 in.
273	1-3% in. and 1-3 in., or	1-4 " ar.d 1-2% in.
1. Figure - Silver African	1.5 m. and 1-5 m., or	1-414 in and 1-914 in
	24 in. and 1-3 in., or	4-2 in or 10.0
7 66	1.6 in and 1.4 in on	or 10-2 in.
Q . 60	1-6 in. and 1-4 in., or	
The second second	2-6 in. and 1-5 in., or	5-4 in. and 2-2 in.

## List of Sizes of Steam Mains.

Ra	diation	One- Pipe Work	Two-Pip	Work
40 to 100 to 120 to	125 250	1 inch 14 " 14 "	1 x 3/ 1 x 3/ 11/ x 1	inch
850 to 900 to	850 " 900 " 1250 "	2½ " 3½ " 3½ "	1½ x 1½ 2 x 1½ 2½ x 2 3 x 2½	4
1250 to 1600 to 2050 to	2050 " 1500 " 3000 "	41/2 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8% x 8 4 x 3% 4% x 4 5 x 4%	60 60 60
5000 to 5000 to 6500 to 8100 to	-8100 · · · · · ·	8 9	6 x 5 7 x 6 8 x 6 9 x 6	66 (Fig. 1)

The above are safe approximates, prepared from long experience, but conditions may alter these sizes.

7168/30

## Number of Square Feet of Heating surface in 100 Lineal Feet of Standard Iron Pipe.

## From 1 to 6 Inch Diameter.

Pipe	Square Peet	Pipe	Square Feet
1 inch 11/4 " 11/4 " 2 " 2 " 21/2 " 3 " " 1	34.43 43.30 49.75 62.17 75.26 91.63	3½ inch 4 " 4½ " 5 " 6 "	104:72 117.81 180.90 145.64 173.44

## Pressure of Water for each Foot in Height.

Feet	Pounds	Feet	Pounds	Feet	Pounds
in Height	Per Sq. In.	in Height	Per Sq. In.	in Height	Per Sq. In.
1 . 2 . 5 .	.43 .86 2.16 4.33	15 20 25 40	6.49 8.66 10.82 17.32	50 70 80 100	21.65 30.32 34.55 43.31

## Temperature of Steam at Different Pressures.

Pressure Sq're Inch	Tempera-	Pressure Sq're Inch	Tempera- ture	Pressure Sq're Inch	Tempera-
0 pound 1 " 2 pounds 3 "	212 215 219 222	4 pounds 5 " 10 " 15 "	228 240	20 pounds 25 % 50 %	257 265 297 338

## Table Showing Expansion Wrought Iron Pipe

	Tempera-	Length of	Length of Pipe when Heated to			d to
	when Pipe	Pipe when Fitted	215	265	297	338
	is Fitted	24	Ft. In.	Rt. 1 Inc	Ft. In.	Ft. I
7	Zero 32 64	100 feet 100 feet 100 feet	100 1.47	100 2.12 100 1.78 100 1.61	100 2.12	100 245

